

VIRTUAL MACHINE SUPPORT FOR MULTIPLE APPLICATIONSAbstract

5 A computer system runs a virtual machine which is
typically capable of supporting only a single
application. In order to run multiple applications on it,
a single environment application is first started running
on the virtual machine. Then, one or more applications
10 are loaded into said environment application as compiled
code. The loading includes scanning the compiled code for
predetermined instructions, and making a modification to
such predetermined instructions to call back to the
environment application. This allows certain problematic
15 instructions from the application, such as those which
attempt to shut down the virtual machine, to be replaced.
Each of the one or more applications is assigned to a
separate thread within the environment application. This
allows the one or more applications to be run by running
20 their assigned threads within the environment
application. The effect of this is that the one or more
applications appear to the virtual machine as part of the
environment application, in other words as if only one
application in total were running on the virtual machine.